SWAT

Solid Waste Alaska Taskforce









Solid Waste Boot Camp

VISUAL WASTE INDEX

By: Trisha Bower and Stephen Price

Community Waste Management Index											
		COMMENTS									
#	Category	0	1	2	3	4	5	COMMINICATION	Score		
6	Salvage Area	Public salvaging, if allo pollution. 18 AAC 60.22									
		Uncontrolled salvaging allowed at working face	Salvaging at working face only when operator present	Separate salvage area, no apparent organization or management	Separate salvage area, some organization or management.	Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely	Salvage area managed well (see 4), items removed for disposal or backhaul regularly - signs posted				
7		Separating used oil ou and can be reused as a									
		Used oil not managed - disposed at the landfill	Some used oil collected, not stored safely, no plan for disposal or energy recovery	Some used oil collected, not stored safely, burned without energy recovery	Used oil collected, stored safely. Burned without energy recovery	Used oil collected and safely stored. Burned for energy recovery or shipped out	Enforcement of used oil collection and safe storage. Burned for energy recovery in an EPA approved unit or shipped out				
		Vehicles may not be di landfill for later dispo									
8	Vehicles	Uncontrolled disposal - Vehicles disposed in landfill, fluids & batteries not removed	Vehicles stored in separate area of landfill, no fluids or batteries removed. No containment for leaks. No plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling	Vehicles stored in separate area of landfill, some fluids or batteries removed. Containment for leaks. Plans for disposal or recycling	All batteries and fluids removed prior to proper disposal or recycling	Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling				
		Chlorofluorocarbon (CF landfill. No CFCs may l									
9	Freezers & Refrigerators CFCs	Disposed of with general waste, CFCs intentionally vented to the environment	Disposed of with general waste, no CFCs removed	Some units segregated, no CFCs removed and no plan	Some units segregated, some CFCs removed but pe document	Units segregated, CFCs sporadi	Lie				

Landfill Inspection Scoring

0% - 100%

The higher the inspection score, the more protective the landfill is being of human health and the environment

The lower the inspection score, the less protective the landfill is being of human health and the environment

Landfill Site Control

- Landfill Road Maintenance
- Signage
- Access Control

Landfill access and onsite roads under the operator's control must be kept passable and safe for vehicles during normal hours of operation. 18 AAC 60.220

Landfill Road Maintenance

Landfill not accessible for more than one month per year

Landfill usually accessible, roads barely passable, history of being inaccessible for more than one month

Landfill generally accessible year round, history of being round, history of minor inacessible for less than one month

Landfill generally accessible year problems

Landfill accessible year round, roads to and in landfill occasionally maintained

landfill accessible year round, roads to and in landfill actively maintained





A clearly legible sign must be posted at the entrance to the landfill. The sign must prohibit disposal of regulated hazardous waste and polychlorinated biphenyl (PCB) waste. Signs should identify the owner or operator, hours of operation, and emergency contacts. Signs should also direct users where to dispose of special wastes. 18 AAC 60.240

Signage

No signs at the landfill

Signs in poor condition, unreadable

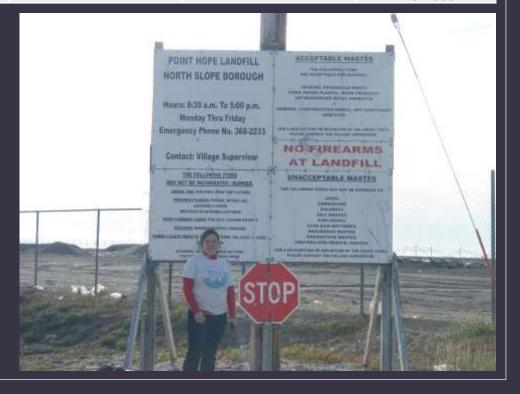
where to dump waste and list of prohibited and/or entrance sign

Basic information on Basic information on where to dump waste waste and/or entrance sign

Information on where to dump waste, list of prohibited waste, entrance sign, and burning instructions (if applicable)

Detailed information on where to dump waste, list of prohibited waste. complete entrance sign, burning instructions (if applicable), and alternative disposal methods







Prohibited Disposal - Regulated Hazardous Waste, Polychlorinated Biphenyl (PCB) Waste, Honey Buckets or Grey Water

Discharge of Fire Arms Is Prohibited

IF NOT REUSABLE, ALL PIPE MUST BE 4' OR LESS

OWNER OPERATOR: City of Galovin EMERGENCY CONTACT- HEALTH CLINIC VILLAGE PUBLIC SAFETY OFFICER TRIBAL EPA

779-3211/779-2371 907-779-3311 907-779-3911 907-779-2005

SPECIAL WASTES 18 AAC.60.240

TRIBAL EPA 907-779-2005

HOUSEHOLD BATTERIES CFL COMPACT FLOURSCENT BULBS!

UNBURNABLE PLASTIC BAGGEDI ALL ELECTRONIC WASTE

SALVAGE YARD

WHITE GOODS IFREEZER &REFRIGERATOR DOORS REMOVED & CLEAN UNITS! METAL

SNOW MACHINES BIKES

BOAT MOTORS, ECT.

CITY GARAGE

4" FLOURSCENT BULBS USED OIL USED ANTI-FREEZE LEAD ACID BATTERIES



CITY OF SHAKTOOLIK

MUNICIPAL SOLID WASTE LANDFILL SOLID WASTE PERMIT NO. SW3A109-18

EMERGENCY PHONE NUMBER PUBLIC WORKS 955-3701

OWNED BY CITY OF SHAKTOOLIK OPERATED BY SHAKTOOLIK I.G.A.P.

ITEMS PROHIBITED FROM DISPOSAL IN THIS LANDFILL -

ACIDS

CORROSIVES **OILY WASTES EXPLOSIVES**

APPLIANCES

MEDICAL WASTES BATTERIES RADIOACTIVE WASTE ASBESTOS

FREON CONTAINING OTHER MATERIALS DEFINED SOLVENTS AS HAZARDOUS BY ADEC

GASOLINE

USED OIL

DIESEL

GLYCOL

Please drop off these items at the Shaktoolik I.G.A.P.



New Landfill Sign Order



PROHIBITED WASTES

Waste Oil
Bulk Liquids
Medical Waste
Hazardous Material
Commercial Construction
Waste

PCB's
Antifreeze
Explosives
Paint / Solvents
Asbestos
Polluted Soils

CHALKYITSAK LANDFILL

Operated By Chalkyitzak Village Council

MUNICIPAL SOLID WASTE ONLY

Emergency Contact: IGAP or Chief 848-8117

PLEASE TAKE THE FOLLOWING ITEMS TO THE RECYCLING CENTER

Lead-Acid Batteries Used Oil
Household Batteries Electronics
Fluorescent Lights Liquids & Chemicals

Thank You For Keeping Our Community Clean For The Future

DO NOT INCINERATE (BURN)

Aerosol Cans (Hair Spray, Spray Paint, etc.)
Pressurized Cylinders
Household, Boat, or ATV Batteries
Highly Flammable Liquids
Explosives (Unused Ammunition Or Fireworks)
Rubber and Plastic Products

In General Do Not Incinerate Any Items That May Create Black Smoke

.080" X 24" X 48" Aluminum White Refletive Signs With Green Hp Vinyl Graphics. \$295.00 each x 4 = \$1180.00.



vital-signs2010@live.com

P.O.Box 61077 Fairbanks, Alaska 99706 Hone God Pairbanks, Alaska 99709 Prope 907 479-7999

FAX: 907 456-6797

SKETCH FOR:

Patricia Salmon Chalkyitsak Village Council 12 Sept.

C 2016 VITAL SIGNS, INC.

PAINTS/ SOLVENTS LEAD-ACID BATTERIES DISPOSE OF ANIMAL CARCASSES HERE

FLUORESCENT

LIGHT BULBS

& TUBES

AEROSOL

CANS

NO

SHOOTING

PLASTICS #1 & #2

PLASTICS

ALL OTHER

CANS

BURNABLE

INK CARTRIDGE TONERS

PLASTIC

USED

ELECTRONIC WASTE

.080" X 12" X 18" Aluminum White Baked Enamel Signs With Green Hp Vinyl Graphics. \$70.00 each x 14 = \$980.00.



vital-signs2010@live.com

P.O.Box 61077 Fairbanks, Alaska 99706 Mile Daie Road Fairbanks, Alaska 99709

FAX: 907 479-7999

SKETCH FOR:

Patricia Salmon Chalkyitsak Village Council 12 Sept.

C 2016 VITAL SIGNS, INC.

Access to the landfill facility must be limited by the use of fencing, berms, or natural barriers to control public access to the site. This should prevent unauthorized traffic or dumping. 18 AAC 60.220

Access Control

No fence/barriers, open access, no restrictions

Barriers in poor condition, open access

Barriers in repairable condition, open access

Functional barriers, but open gates, open access Functional barriers, locking gate, restricted hours Functional barriers, locking gates, restricted hours, monitored







HOURS OF OPERATION
Tuesday & Friday
9:00 am - 5:00 pm (Closed 12:00 - 1:00 pm)

Burning

- Waste Separation
- Burn Management
- Burn Unit Used

Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

Waste Separation

No separation waste

Minimal separation Some separation of waste

of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separted waste properly disposed





Burning of plastics, asphalts, rubber, tars, oily wastes, or other materials in a way that gives off black smoke is prohibited. 18 AAC 50.065(b)

Waste Separation

No separation waste

Minimal separation Some separation of waste

of waste

Most wastes separated

Most wastes separated, separated waste properly disposed

All wastes separated & strictly monitored, all separted waste properly disposed





Burning must be contained and controlled and managed to minimize adverse environmental effects and limit the amount of smoke generated. 18 AAC 60.233, 18 AAC 60.355, 18 AAC 50.065(b)

Burn Management

No management of burning evidence of large fires throughout the landfill

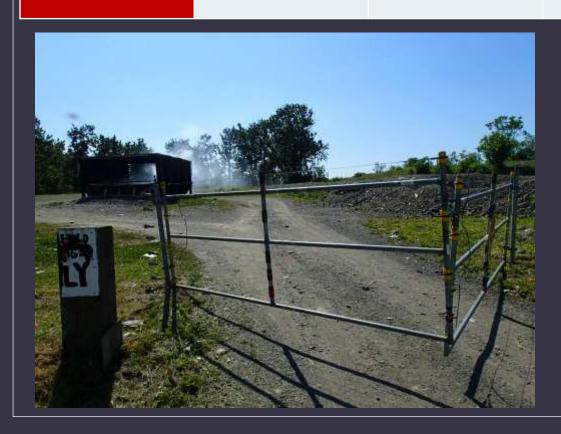
No burn management evidence of small fires in the landfill

Burn unit or trench Burn unit or trench loaded by users, lit by users

loaded by users, lit by operator

Burn unit loaded and lit only by operator in appropriate weather

Complete management: waste kept dry; burn unit loaded, lit & monitored only by operator in appropriate weather





Complete management: waste kept dry; burn unit loaded, lit & monitored only by operator in appropriate weather





Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

Burn Unit Type

No burn unit

Burn unit onsite limited functionality or use.

Functioning burn box or burning in a trench

Burn cage

Enclosed burn unit with smoke stack

Incinerator





Uncontained burning of municipal waste on the ground is not allowed at Class III landfills. Burning may be conducted in a burn box, burn cage, or other device where burning is contained and controlled. 18 AAC 60.233, 18 AAC 60.355

Burn Unit Type

No burn unit

Burn unit onsite limited functionality or use.

Functioning burn box or burning in a trench

Burn cage

Enclosed burn unit with smoke stack

Incinerator





Landfill Operations

- Operator
- Equipment
- Working Face
- Compaction
- Cover
- Slopes & Grading
- Vector & Nuisance Control
- Litter
- Maintenance & Corrective Action
- Inactive Areas

An operator is one of three elements for a successful landfill program. RALO

Operator

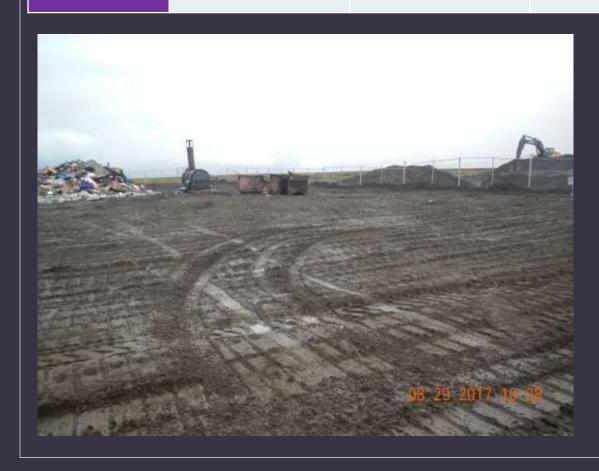
No operator

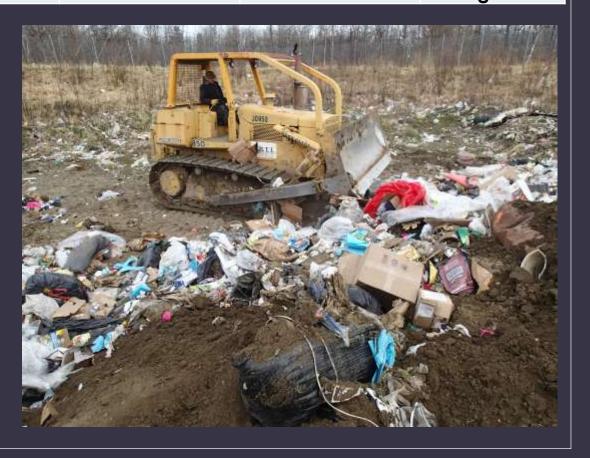
Managed as emergency only

Managed periodically

Managed periodically by assigned personnel

Operator assigned to landfill, not allocated enough hours Operator
assigned to
landfill,
allocated
enough hours







The Golovin landfill was the highest scoring rural landfill in 2016. Golovin also scored higher than some of the large municipal landfills in Alaska, and this is not an insignificant achievement. Golovin is very fortunate to have one of the best Landfill Managers in the State of Alaska, Peter Olson, who has over 30 years of experience in solid waste management.

	2014	2014	2016	2016
	Points/Possible	Percentage	Points/Possible	Percentage
Landfill Site Control	12/15	80	15/15	100
Burning	11/15	73	14/15	93
Landfill Operations	49/50	98	50/50	100
Landfill Water Impacts	15/15	100	15/15	100
Special Waste	30/30	100	50/50	100
Management				
Administration	16/20	80	19/20	95
Total	133/145	92%	163/165	99



Properly sized and maintained equipment is one of three elements for a successful landfill program. RALO

Equipment

No equipment

Broken but repairable equipment

Equipment borrowed - emergency only

Equipment borrowed - regular schedule

Dedicated landfill equipment - not properly stored or maintained

Dedicated
landfill
equipment properly stored
& maintained





Maintained





The working face must be kept as small as practical. 18 AAC 60.345

Working Face

No designated working face, waste spread over entire landfill

Some attempt to keep waste to an specific area

Waste mostly in one area of the landfill

Dumping area identified, most waste limited to large dumping area Dumping area identified, most waste limited to reasonably sized dumping area

Clearly
identified
dumping area,
working face
kept as small
as practical





Working Face





Working Face





Compaction of waste will reduce the volume and extend the useable life of the landfill, and will reduce infiltration of water that can create leachate.

Compaction

No effort to compact waste, uncontrolled waste

No effort to compact waste, equipment available

Compaction of waste, with poor results

Compaction of waste 1 - 4 times per year

Compaction of waste more than 4 with 4-6 passes of times per year

Compaction of waste more than 4 times per year large tracked vehicle, waste is well compacted





Compaction of waste will reduce the volume and extend the useable life of the landfill, and will reduce infiltration of water that can create leachate.

Compaction

No effort to compact waste, uncontrolled waste

No effort to compact waste, equipment available

Compaction of waste, with poor results

Compaction of waste 1 - 4 times per year

Compaction of waste more than 4 with 4-6 passes of times per year

Compaction of waste more than 4 times per year large tracked vehicle, waste is well compacted









Compaction of waste will reduce the volume and extend the useable life of the landfill, and will reduce infiltration of water that can create leachate.

Compaction

No effort to compact waste, uncontrolled waste

No effort to compact waste, equipment available

Compaction of waste, with poor results

Compaction of waste 1 - 4 times per year

Compaction of waste more than 4 with 4-6 passes of times per year

Compaction of waste more than 4 times per year large tracked vehicle, waste is well compacted



Waste must be covered by 6 inches of soil or an approved alternative cover as necessary to control disease vectors, fire, odor, blowing litter, and scavenging. 18 AAC 60.345

Cover

No cover applied, No cover applied, no cover available cover available

Cover applied not control issues, not stockpiled at landfill

Cover applied periodically, does periodically, does needed to control not control issues, stockpiled at landfill

Cover applied as issues, cover not stockpiled at landfill

Cover applied as needed to control issues, cover stockpiled at landfill





Waste must be covered by 6 inches of soil or an approved alternative cover as necessary to control disease vectors, fire, odor, blowing litter, and scavenging. 18 AAC 60.345

Cover

No cover applied, No cover applied, no cover available cover available

Cover applied periodically, does not control issues, not stockpiled at landfill

Cover applied periodically, does needed to control not control issues, stockpiled at landfill

Cover applied as issues, cover not stockpiled at landfill

Cover applied as needed to control issues, cover stockpiled at landfill





Waste must be covered by 6 inches of soil or an approved alternative cover as necessary to control disease vectors, fire, odor, blowing litter, and scavenging. 18 AAC 60.345

Cover

No cover applied, No cover applied, no cover available cover available

Cover applied periodically, does periodically, does needed to control not control issues, not stockpiled at landfill

Cover applied not control issues, stockpiled at landfill

Cover applied as issues, cover not stockpiled at landfill

Cover applied as needed to control issues, cover stockpiled at landfill





The landfill should be graded and sloped to preserve the stability of the landfill and reduce ponding and erosion. 18 AAC 60.390, 18 AAC 60.243

Slopes & Grading

Slopes unstable and ponds at the landfill, no efforts to correct Slopes unstable and ponds at the landfill, some efforts to correct

Minor issues with erosion, no efforts to grade landfill

Minor issues with instability, ponding, or instability, ponding, or no ponding, erosion, erosion, some efforts to grade inadequate run-on or landfill

Landfill graded, or instability evident, run-off controls

Landfill actively graded to ensure stability, protect from erosion, prevent run-on, and promote runoff of storm or surface water





Another Engineered Drainage System



Dust, odor, noise, traffic, other effects from the landfill, and disease vectors, including wildlife and domestic animals, must be controlled so that the public health, safety, or welfare are not endangered or they create a nuisance. 18 AAC 60.230, 18 AAC 60.233

Vector & Nuisance Control

Waste exposed to elements - flies, animals, humans, and vehicles track through waste Few issues controlled, vector or health issues, and nuisance issues present Some issues controlled, minor vector or health issues, and nuisance issues present

Most issues controlled, minor nuisance issues present

Issues controlled public allowed in landfill Issues
controlled only operator
allowed in
Iandfill









What it's Not



Litter must be controlled so that it does not become a nuisance or hazard. 18 AAC 60.233, 18 AAC 60.345

Litter (in and around landfill)

Litter everywhere, no clean-up efforts Annual litter clean-up, litter uncontrolled rest of the year

Litter issues, picked up intermittently throughout the year

Some litter issues, litter picked up regularly

No litter issues, litter picked up as needed No litter
issues,
operator
picks up litter
as needed





Litter must be controlled so that it does not become a nuisance or hazard. 18 AAC 60.233, 18 AAC 60.345

Litter (in and around landfill)

Litter everywhere, no clean-up efforts Annual litter clean-up, litter uncontrolled rest of the year

Litter issues, picked up intermittently throughout the year

Some litter issues, litter picked up regularly

No litter issues, litter picked up as needed

No litter
issues,
operator
picks up litter
as needed



The landfill must maintain structures and components of the facility, and repair any structural changes or damage to the facility. 18 AAC 60.815 Significant damage Significant damage Significant damage Maintenance & that may impact that may impact Minor damage at the Minor damage at the that may impact **Corrective Action** health, safety or the health, safety or the facility, facility, No structural health, safety or the environment, environment, no plan for corrective corrective action damage environment, no plan corrective action corrective action action planned for corrective action planned underway



2017- Still Up © Now No Structural Damage





Corrective Action of Structural Damage





Areas that have not received waste for more than 90 days, but have not yet reached the final capacity or elevation, must receive an intermediate cover. The area must be covered with 12 inches of soil and graded to prevent ponding and erosion. 18 AAC 60.243 Note, this is not closure. If an area is closed or should be under a closure plan, it should have 24" of soil cover and be revegetated.

Inactive Areas

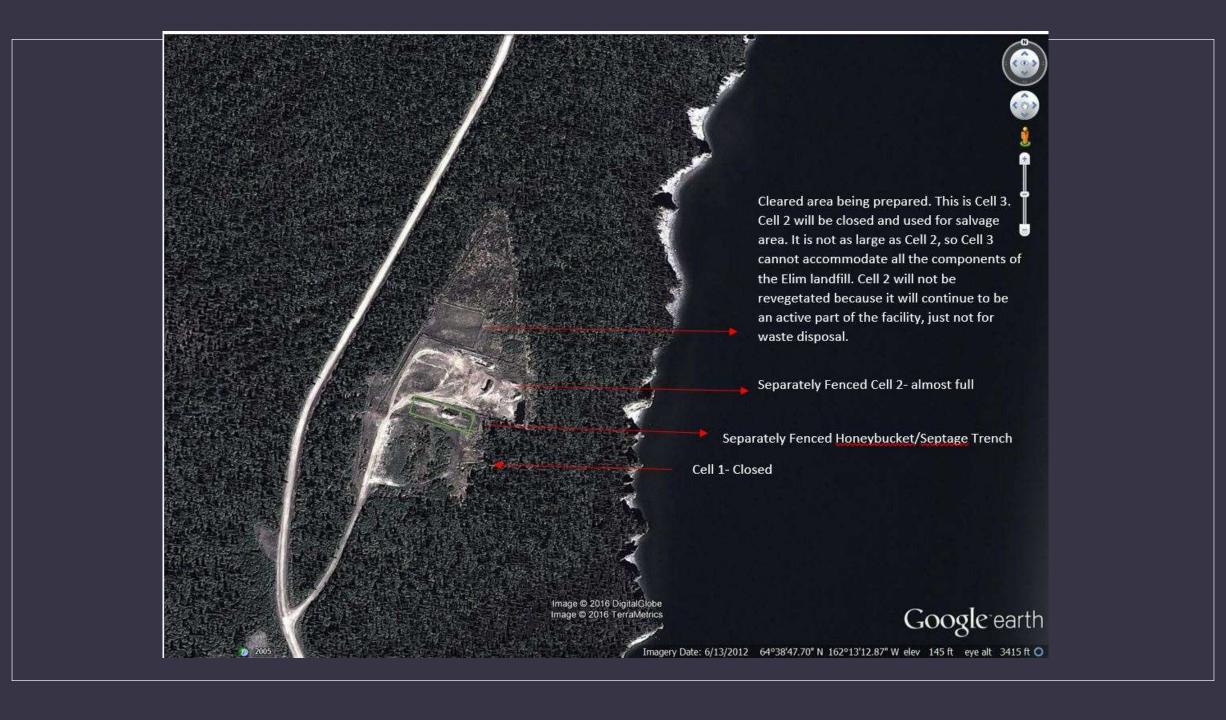
No distinction between active & inactive areas

Inactive area separate from working face uncovered Inactive areas separate from working face partially covered Inactive areas separate from working face covered with less than 12" Inactive areas separate from working face - fully covered with 12", not graded to prevent ponding or erosion

Inactive areas separate from working face - fully covered with 12", graded to prevent ponding and erosion







Landfill Water Impacts

- Leachate
- Surface & Storm Water Controls
- Impact to Permafrost or Wetlands
- Water Monitoring (If Required)

	Leachate means liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscrible materials removed from the wastes. Leachate seeps must be prevented, or contained and controlled. 18 AAC 60.225						
Leachate	Leachate seeps present, no effort to contain or control	Leachate seeps present, some effort to contain or control	· ·	No leachate seeps observed, conditions likely to cause leachate, some effort to contain leachate	· ·	No leachate seeps observed, efforts in place to prevent leachate	
	A landfill must be constructed and operated so that seasonal flooding is temporary in duration. Waste may not be placed in surface water. The landfill must minimize contact between stormwater and waste. Ponded water must be removed within 30 days. 18 AAC 60.225						
Surface & Storm Water Controls	Waste disposed into water body	Waste in contact with water regularly, no surface and storm water controls	Waste in contact with water, some surface and storm water controls, not effective	Some waste in contact with water, surface and storm water controls, ponding not removed within 30 days	Evidence of waste in water or ponding at the landfill, surface and storm water controls, ponding removed within 30 days	No evidence of waste in water or ponding at the landfill, berms, ditches and other controls are in place and are effective	
Impact to Permafrost or	settles and water is po	I on permafrost, it must poling, the operator mu ause or contribute to si	ust take corrective act	ion. 18 AAC 60.227 If t	he landfill is located in		
Wetlands (only for facilities built on permafrost or wetlands)	Permafrost appears to be melting around landfill; or wetland plants around landfill are clearly impacted - no corrective action plan	Permafrost or wetlands impacted - corrective action plan under	Permafrost or wetlands impacted - corrective action underway but no evidence of improvement	Permafrost or wetlands impacted - corrective action in place has shown improvement	No clear impacts to permafrost or wetlands, but some indicators (small ponds, leachate, etc.) present	No indicators or impact to permafrost or wetlands are evident	

We've Seen Plenty Of Examples of What It's Not: What Does it Actually Look Like?



















Impact to Permafrost or Wetlands (only for facilities built on permafrost or wetlands) If the landfill is located on permafrost, it must be designed and operated so that the permafrost remains frozen. If the landfill settles and water is pooling, the operator must take corrective action. 18 AAC 60.227 If the landfill is located in or near a wetland, it may not cause or contribute to significant degradation of the wetlands. 18 AAC 60.315

Permafrost appears to be melting around landfill; or wetland plants around landfill are clearly impacted - no corrective action plan

Permafrost or wetlands impacted - corrective action plan under development Permafrost or wetlands impacted - corrective action underway but no evidence of improvement

Permafrost or wetlands impacted - corrective action in place has shown improvement

No clear impacts to permafrost or wetlands, but some indicators (small ponds, leachate, etc.) present

No indicators or impact to permafrost or wetlands are evident

Old Landfill

New Landfill



Now That We Showed What It's Not- Here's a Reminder of What It Should Look Like ©

Special Waste Management

- Septage (Including Honeybucket Waste)
- Animal Carcasses including Subsistence Waste
- Household Hazardous Waste
- Liquid Waste
- Salvage Area
- Used Oil
- Vehicles
- Freezers & Refrigerators CFC's
- Lead Acid Batteries

Septage including Honeybucket Waste

The landfill may accept septage or honey bucket waste if it is deposited into separate trenches, less than 4' in depth, and the trench is maintained not to overflow. Hydrated lime must added to a pH of 12(30 min.) on a regular basis. 18 AAC 60.365

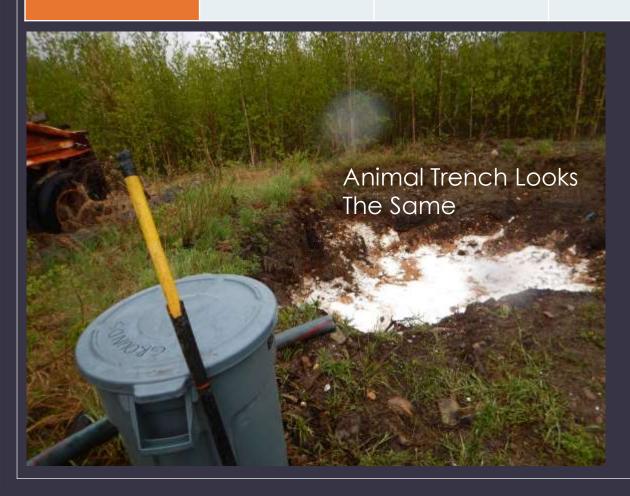
Septage co-mingled with MSW

Septage disposed in separate area of landfill

Septage in separate trench no lime added

Septage in properly constructed trench, lime added infrequently

Septage in properly constructed trench, lime added on a regular basis Septage in properly constructed trench, lime added and pH tested







Separating HHW out of the waste disposed at the landfill will help keep chemicals out of the landfill and reduce risks to human health and the environment. HHW can be reused within the community or shipped out for proper disposal.

Household
Hazardous Waste
(HHW)

No HHW separation

No HHW separation, regularly covered

HHW collection program available, accessible, but not well used HHW collection program available, accessible, most HHW diverted from landfill

Clear options for HHW reuse or collection program, well run, most HHW diverted from landfill Clear options for HHW reuse or collection program, well run, most HHW diverted from landfill, shipped out as needed









Recycling Center





LEAD-ACID BATTERIES DISPOSE OF CARCASSES HERE

SHOOTING

PLASTICS

ALUMINUM CANS

FLUORESCENT LIGHT BULBS A TUBES

AEROSOL CANS

PLASTICS ALL OTHER

BURNABLE WASTE

INK TONERS

PLASTIC BOTTLES

USED

ELECTRONIC WASTE

.080" X 12" X 18" Alaminum White Bulsod Enamel Signs With Grown Hp Vinyl Graphics. \$70.00 coch x 14 = \$986.06.



vital-signs2010@live.com

Patricia Salmen Chalkyitsak Village Council

12 Sept.



Liquid waste, including kitchen grease, may not be disposed at the landfill, with the exception of small quantities (1 gallon or less) of containerized waste. 18 AAC 60.360

Liquid Waste

Non-household liquids over 1 gallon containers disposed in to less than 1 gallon landfill

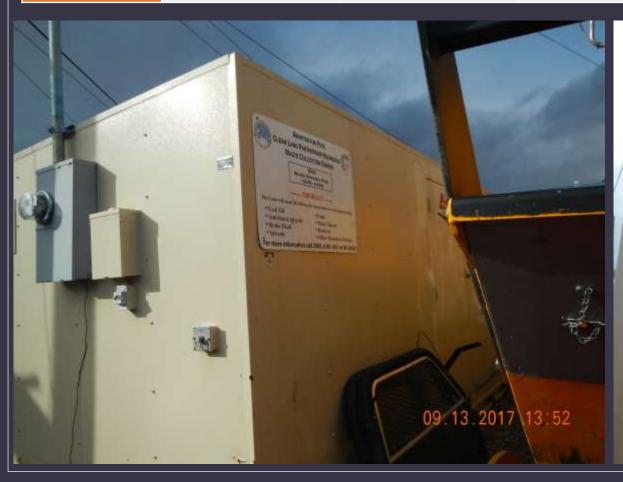
Free liquids not prohibited, but limited container

Free liquids prohibited at landfill, alternatives not well identified

Free liquids prohibited Free liquids prohibited at landfill, alternatives at landfill, alternatives identified, not well used

identified, generally used

Free liquids prohibited and enforced. alternatives identified, and widely used





C&D is regulated based on local laws and ordinances. However, all construction projects should submit a building survey to ensure that all hazardous & asbestos waste are removed prior to disposal. Non-RACM waste must be handled so that it does not become friable and be covered within 24 hours without compaction to prevent the release of asbestos fibers. 18 AAC 60.450

Construction & Demolition Debris (C&D) non-RACM

No controls for C&D, indiscriminately disposed, no requirements for identifying or managing non-RACM

C&D disposed at working face, no awareness or management of non-**RACM**

C&D disposed at working face or separate cell, awareness of non-RACM, not covering

C&D disposed at working face or in separate cell, not well managed large pile. Aware of non-RACM, usually covered in 24 hours

C&D well managed, not frequently compacted. Contractors required pile. Contractors to identify non-RACM - not allowed or is properly managed and covered in 24 hours

C&D well managed and compacted frequently - small required to identify non-RACM - not allowed or is properly managed





North Slope Borough

Application for Direct Landfill



APPLICANT INFORMATION

Applicants N Company: _	WIC	CONST	RUCTI	a	(BR)	Moon	NTLE	5	
Address:	10 100	Nec T	TC &	FUR	RD	ANCH	LORAGE	AK	99519
Day Time Ph	one: 10	7-855	- 140	D H	lome Phon	e 907	-855-/	400	-55
Vehicle Desc	ription:	WEC	SEM	I 4	TRA	TLER		Medica	
License Plate	Number.	NA	,						

Approval of applications will be authorized only for the materials described below in the quantities shown. NSB Public Work will attempt to meet the requested schedule for delivery, however regularly scheduled operations and unexpected conditions may take precedence over the permitted delivery. Adverse weather conditions will delay receipt of wastes.

WASTE INFORMATION

Project generating Waste:	40 MAN CAMP
Type of Material to be disposed of:	ATCO MODULAR BLOG'S
Volume of Material to be disposed:	8 MODULAR BLDGS
Requested Date and Time for disposal:	9/9/13 + 9/20/13

Delivery of wastes will be coordinated with NSB Public Work's personnel. No wastes will be delivered without NSB Public Work's landfill personnel present at the landfill. Wastes will be deposited in the active waste cell where directed by NSB Public Work's personnel.

The North Slope Borough does not assume responsibility for materials delivered to the landfill that are hazardous in nature. Costs associated with removal, proper disposal and landfill remediation shall be the sole burden of the parties involved in the infraction of the North Slope Borough Ordinances.

This application can only be signed by an authorized representative in direct understanding of wastes to be disposed and with the authority to obligate corporate assets for the purpose of remediation activities should hazardous waste be disposed

CERTIFICATION

I have read and understand the North Slope Borough Barrow Landfill Zoning Permit and the above conditions for direct disposal of waste in the Barrow Landfill. I hereby certify that I have knowledge of the wastes, that either I or my designee will deliver to the landfill, and that no listed hazardous wastes will be hauled to the landfill for disposal. In addition, should hazardous wastes be delivered to the landfill, I understand the costs associated with this, as well as have the authority to mobilize labor, equipment, and materials needed to effect a complete remediation of the landfill, and shall accept all imposed fines related to this infraction.

BRANDON NELE Applicant Name BWZ-	9/18/13
Applicant Signature	Date /
APPLICATION REVIEW	
APPLICATION A	PPOVED
APPLICATION R	FIECTED
REASON FOR REJECTION:	LVECTED
Robert L. Toalston	
Reviewer Name)
1-15-11	9-18-13
Reviewer Signature	Date

Public salvaging, if allowed, must be limited to an area that does not hinder facility operation, create a safety hazard, or cause pollution. 18 AAC 60.220

Salvage Area

Uncontrolled salvaging allowed at working face

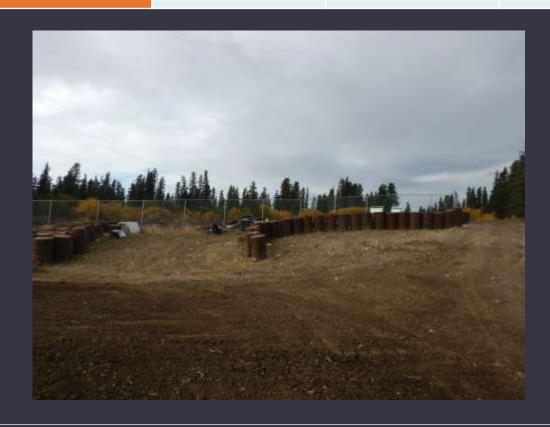
Salvaging at working face only when operator present

Separate salvage area, no apparent organization or management

Separate salvage area, some organization or management.

Salvage area has defined locations for different items, fluids are drained or contained (liner), operated safely

Salvage area managed well (see 4), items removed for disposal or backhaul regularly signs posted





Salvage Area

Uncontrolled salvaging allowed at working face

Salvaging at working face only when operator present

Separate salvage | Separate salvage area, no apparent organization or management

area, some organization or management.

Salvage area has defined locations for different items. fluids are drained or contained (liner), operated safely

Salvage area managed well (see 4), items removed for disposal or backhaul regularly signs posted





Separating used oil out of the waste disposed at the landfill will help keep petroleum products out of the landfill and the environment, and can be reused as an energy resource for the community.

Used Oil

Used oil not managed collected, not stored - disposed at the landfill

Some used oil safely, no plan for disposal or energy recovery

Some used oil collected, not stored safely, burned without energy recovery

Used oil collected, stored safely. Burned without energy recovery

Used oil collected and safely stored. **Burned for energy** recovery or shipped energy recovery out

Enforcement of used oil collection and safe storage. **Burned for** in an EPA approved unit or shipped out





Vehicles may not be disposed at the landfill unless all fluids and batteries have been removed. If undrained vehicles are stored at the landfill for later disposal or recycling, they must be managed to prevent release of fluids. 18 AAC 60.035, 18 AAC 60.010

Vehicles

Uncontrolled disposal - Vehicles disposed in landfill, fluids & batteries not removed

Vehicles stored in separate area of landfill, no fluids or batteries removed. No containment for leaks. No plans for

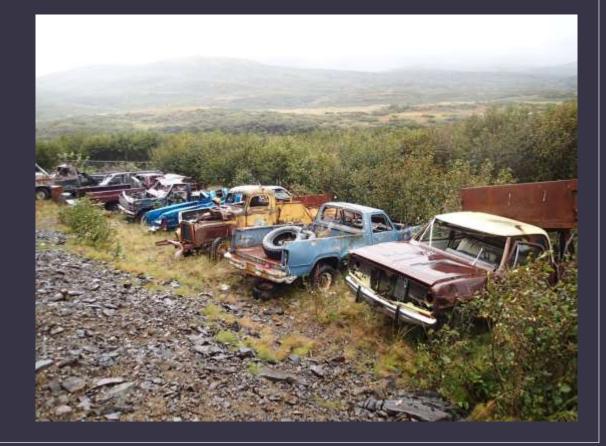
Vehicles stored in separate area of landfill, some fluids or landfill, some fluids or batteries removed. No containment for leaks. Plans for disposal or recycling disposal or recycling disposal or recycling

Vehicles stored in separate area of batteries removed. Containment for leaks. Plans for

All batteries and fluids removed prior to proper disposal or recycling

Operator verifies ALL batteries and fluids removed prior to proper disposal or recycling





Chlorofluorocarbon (CFCs) must be removed from appliances by a certified technician with certified equipment prior to disposal at any landfill. No CFCs may be vented to the environment. 40 CFR 81.154-162

Freezers & Refrigerators **CFCs**

Disposed of with general waste, CFCs intentionally vented to the environment

Disposed of with general waste, no **CFCs** removed

Some units segregated, no CFCs CFCs removed but no removed and no plan

Some units segregated, some documentation or marking

Units segregated, **CFCs sporadically** removed by certified tech & documented, properly disposed or recycled

Units segregated, **ALL CFCs** regularly removed by certified tech & documented. properly disposed or recycled





Prohibiting disposal of lead acid batteries from the landfill will reduce the risks of environmental contamination. Batteries should be stored in a lined, covered container or area, and managed to prevent any release to the environment.

Lead Acid Batteries

Lead acid batteries disposed in landfill

Some lead acid batteries segregated but poorly stored at landfill

Most lead acid batteries segregated but poorly stored

Most lead acid leaks, but not covered

batteries segregated All lead acid batteries and stored to prevent segregated, properly stored

All lead acid **batteries** segregated, properly stored, and regularly shipped out





Can Be Collected Outside- But it Better Be Bone Dry on the Inside ©





Administration

- Permit
- Monthly Visual Monitoring
- Operations Plan
- Facility Location

Administration





Questions?